



High Performance Network Security

# PRODUCT MATRIX



DECEMBER 2014



# FortiGate® Network Security Platform - \*Top Selling Models Matrix

	FG/FWF-30D	FG/FWF-60D	FG-80D	FG-70D, FG/FWF-90D	FG/FWF-92D	FG-100D	FG-200D	FG-300D	FG-500D	FG-600C
Firewall Throughput (1518/512/64 byte UDP)	0.8 / 0.8 / 0.8 Gbps	1.5 / 1.5 / 1.5 Gbps	1.3 / 0.95 / 0.17 Gbps	3.5 / 3.5 / 3.5 Gbps	2.0 / 1.0 / 0.2 Gbps	2.5 / 1 / 0.2 Gbps	3 / 3 / 3 Gbps	8 / 8 / 8 Gbps	16 / 16 / 16 Gbps	16 / 16 / 16 Gbps
Firewall Latency	8 µs	4 µs	90 µs	4 µs	46 µs	37 µs	2 µs	3 µs	3 µs	7 µs
Concurrent Sessions	200,000	500,000	1.5 Mil	2 Mil	1.5 Mil	3 Mil	3.2 Mil	6 Mil	6 Mil	3 Mil
New Sessions/Sec	3,500	4,000	22,000	4,000	22,000	22,000	77,000	200,000	280,000	70,000
Firewall Policies	5,000	5,000	5,000	5,000	5,000	10,000	10,000	10,000	10,000	10,000
IPSec VPN Throughput	350 Mbps	1 Gbps	200 Mbps	1 Gbps	130 Mbps	450 Mbps	1.3 Gbps	7 Gbps	14 Gbps	8 Gbps
Max G/W to G/W IPSEC Tunnels	20	200	200	200	200	2,000	2,000	2,000	2,000	2,000
Max Client to G/W IPSEC Tunnels	250	500	1,000	1,000	1,000	5,000	5,000	10,000	10,000	50,000
SSL VPN Throughput	25 Mbps	30 Mbps	130 Mbps	35 Mbps	170 Mbps	300 Mbps	400 Mbps	350 Mbps	400 Mbps	1 Gbps
Recommended SSL VPN Users	80	100	200	200	200	300	300	500	500	5,000
IPS Throughput	150 Mbps	200 Mbps	800 Mbps	275 Mbps	950 Mbps	950 Mbps	1.7 Gbps	2.8 Gbps	4.7 Gbps	4 Gbps
Antivirus Throughput (Proxy-Based/ Flow-Based)	30 / 40 Mbps	35 / 50 Mbps	250 / 550 Mbps	35 / 65 Mbps	300 / 700 Mbps	300 / 700 Mbps	600 / 1,100 Mbps	1.4 / 2.5 Gbps	1.7 / 3.4 Gbps	1.3 / 2.8 Gbps
Max FortiAPs (Total / Tunnel)	2 / 2	10 / 5	32 / 16	32 / 16	32 / 16	64 / 32	128 / 64	512 / 256	512 / 256	1024 / 512
Max FortiTokens	20	100	100	100	100	1,000	1,000	1,000	1,000	1,000
Max Registered FortiClient	200	200	200	200	200	600	600	600	2,000	2,000
Virtual Domains ( Default/Max)	-	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10
Interfaces	5x GE RJ45	10x GE RJ45	4x GE RJ45	16x GE RJ45	16x GE RJ45	20x GE RJ45, 2x Shared Port Pairs (100D only)	18x GE RJ45, 2x GE SFP	6x GE RJ45, 4x GE SFP	10x GE RJ45, 8x GE SFP	18x GE RJ45, 4x Shared Port Pairs, 2x Bypass Pairs
Local Storage	-	-	16 GB	FG/FWF-90D: 32 GB	16 GB	32 GB	64 GB	120 GB	120 GB	60 GB
Power Supplies	Single AC Power Supply	Single AC Power Supply	Single AC Power Supply	Single AC Power Supply	Single AC Power Supply	Single AC Power Supply	Single AC Power Supply, opt. Ext RPS	Single AC Power Supply, opt. Ext RPS	Single AC Power Supply, opt. Ext RPS	Single AC Power Supply, opt. Dual PS or Ext RPS
Form Factor	Desktop	Desktop	Desktop	Desktop	Desktop	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU
Variants	WiFi, POE	WiFi, POE, LENC	-	WiFi, POE, LENC, High port density + POE	WiFi	LENC, High port density, High port density + POE	LENC, POE, High port density, High port density + POE	-	-	DC, LENC
	FG-800C	FG-1000C	FG-1240B	FG-1500D	FG-3240C	FG-3600C	FG-3700D	FG-3950B	FG-5001C	FG-5101C
Firewall Throughput (1518/512/64 byte UDP)	20 / 20 / 20 Gbps	20 / 20 / 20 Gbps	40-44 / 40-44 / 38-42 Gbps	80 / 80 / 55 Gbps	40 / 40 / 40 Gbps	60 / 60 / 60 Gbps	160 / 160 / 110 Gbps	20-120 / 20-120 / 20-120 Gbps	40 / 40 / 40 Gbps	40 / 40 / 10 Gbps
Firewall Latency	6 µs	6 µs	7 µs	3 µs	4 µs	4 µs	2 µs	4 µs	4 µs	7 µs
Concurrent Sessions	7 Mil	7 Mil	5 Mil	12 Mil	10 Mil	28 Mil	44 Mil	20 Mil	29.5 Mil	10 Mil
New Sessions/Sec	190,000	190,000	120,000	250,000	200,000	235,000	300,000	250K - 300K**	210,000	235,000
Firewall Policies	10,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
IPSec VPN Throughput	8 Gbps	8 Gbps	16 - 18.5 Gbps	50 Gbps	17 Gbps	25 Gbps	100 Gbps	8 - 50.5 Gbps	17 Gbps	22 Gbps
Max G/W to G/W IPSEC Tunnels	2,000	20,000	10,000	20,000	20,000	20,000	40,000	40,000	40,000	40,000
Max Client to G/W IPSEC Tunnels	50,000	50,000	50,000	50,000	64,000	64,000	64,000	64,000	64,000	64,000
SSL VPN Throughput	1.3 Gbps	1.3 Gbps	370 Mbps	4 Gbps	3.4 Gbps	5.3 Gbps	6 Gbps	1.2 Gbps	850 Mbps	970 Mbps
Recommended SSL VPN Users	10,000	10,000	1,500	10,000	30,000	30,000	30,000	25,000	30,000	25,000
IPS Throughput	6 Gbps	6 Gbps	5 - 8 Gbps	11 Gbps	8 Gbps	14 Gbps	23 Gbps	5- 20 Gbps	9.8 Gbps	9.4 Gbps
Antivirus Throughput (Proxy-Based/ Flow-Based)	1.7 / 3.1 Gbps	1.7 / 3.1 Gbps	1.2 / 1.6 Gbps	4.3 / 13 Gbps	2.6 / 9 Gbps	5.8 / 18 Gbps	7.5 / 18 Gbps	4 / 5 - 15 Gbps	3 / 4 Gbps	2 / 5 Gbps
Max FortiAPs (Total, Tunnel)	1024 / 512	4096 / 1024	4096 / 1024	4096 / 1024	4096 / 1024	4096 / 1024	4096 / 1024	4096 / 1024	4096 / 1024	4096 / 1024
Max FortiTokens	1,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Max Registered Endpoints	2,000	8,000	8,000	8,000	20,000	20,000	20,000	20,000	20,000	20,000
Virtual Domains ( Default/Max)	10 / 10	10 / 250	10 / 250	10 / 250	10 / 500	10 / 500	10 / 500	10 / 500	10 / 500	10 / 500
Interfaces	2x 10GE SFP+, 14x GE RJ45, 8x Shared Port Pairs, 2x Bypass Pairs	2x 10GE SFP+, 14x GE RJ45, 8x Shared Port Pairs, 2x Bypass Pairs	16x GE RJ45, 24x GE SFP	8 x 10GE SFP+/GE, 18x GE RJ45, 16x GE SFP	12x 10GE SFP+, 2x GE RJ45, 16x GE SFP	12x 10GE SFP+, 2x GE RJ45, 16x GE SFP	4 x 40GE QSFP+, 20 x 10GE SFP+/GE SFP, 8 x SFP+, 2 x GE RJ45	2x 10GE SFP+, 2x GE RJ45, 4x GE SFP	2x 10GE SFP+, 2x GE RJ45	4x 10GE SFP+, 2x GE RJ45
Local Storage	60 GB	120 GB	64 GB (384 GB Max)	240 GB	64 GB	128 GB	960 GB	256 GB	128 GB	64 GB
Power Supplies	Single AC Power Supply, opt. Dual PS or Ext RPS	Dual PS	Dual PS	Dual PS	Dual PS	Dual PS	Dual PS	Dual PS	Chassis Based	Chassis Based
Form Factor	Rack Mount, 1 RU	Rack Mount, 2 RU	Rack Mount, 2 RU	Rack Mount, 2 RU	Rack Mount, 2 RU	Rack Mount, 3 RU	Rack Mount, 3 RU	Rack Mount, 3 RU	ATCA Blade	ATCA Blade
Variants	DC	DC, LENC	DC	-	DC	DC	DC	DC, LENC	-	-

\* Featured Top selling models, for complete FortiGate offerings please visit [www.fortinet.com](http://www.fortinet.com). FortiGate virtual appliances are also available. Specifications based on FortiOS V5.2+  
 \*\* With FMC-XHD

## FortiManager™ Centralized Management Platform

	FMG-200D	FMG-300D	FMG-1000D	FMG-3900E	FMG-4000E	FMG-VM-BASE	FMG-VM-10-UG	FMG-VM-100-UG	FMG-VM-1000-UG	FMG-VM-5000-UG	FMG-VM-U-UG
Max Licensed Devices/ADoms	30	300	1,000	10,000	4,000	10	+10	+100	+1,000	+5,000	Unlimited
Max Web Portals/Users	-	-	1,000	10,000	4,000	10	+10	+100	+1,000	+5,000	Unlimited
GB Logs/Day	2	2	2	10	10	1	2	5	10	25	50
Locally Hosted Security Content	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS	AV, IPS, VM	AV, IPS, VM	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS	AV, IPS, VM, WF, AS
Total Interfaces	4x GE RJ45	4x GE RJ45	6x GE RJ45, 2x SFP	2x GE, 2x GE SFP+	4x GE RJ45, 2x SFP	1 / 4 (vNIC Min / Max)					
Storage Capacity	1x 1 TB	2x 2TB	4x 2 TB	15x 960 GB	8x 2 TB	80 GB / 16 TB (Min / Max)					

## FortiAnalyzer™ Centralized Logging & Reporting Solution

	FAZ-200D	FAZ-300D	FAZ-1000D	FAZ-2000B	FAZ-3000E	FAZ-3500E	FAZ-3900E	FAZ-VM-BASE	FAZ-VM-GB1	FAZ-VM-GB5	FAZ-VM-GB25	FAZ-VM-GB100
GB Logs/Day	5	15	25	75	250	Unrestricted*	Unrestricted*	1	+1	+5	+25	+100
Sessions/Day	18 Mil	55 Mil	85 Mil	260 Mil	850 Mil	Unrestricted*	Unrestricted*	3.5 Mil	3.5 Mil	18 Mil	85 Mil	360 Mil
Peak Log Rate (standalone Mode)	350	625	1,000	5,000	50,000	60,000	75,000	-	-	-	-	-
Max. Licensed Devices/VDOMs/ADOMs	150	175	2,000	2,000	4,000	4,000	4,000	10,000	10,000	10,000	10,000	10,000
Total Interfaces	4x GE RJ45	4x GE RJ45	6x GE RJ45, 2x SFP	6x GE RJ45	4x GE RJ45, 2x GE SFP	2x GE RJ45, 2x GE SFP	2x GE RJ45, 2x GE SFP+	-	-	-	-	-
Storage Capacity	1x 1 TB	2x 2 TB	4x 2 TB	2x 2 TB (12 TB Max)	8x 2 TB (16 TB Max)	12x 2 TB (48 TB Max)	15x 960 GB	200 GB**	200 GB**	1 TB**	8 TB**	16 TB**
RAID Support	No	Yes (Mirrored)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	Yes, (RAID 0, 1, 5, 10, 50)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	Yes, (RAID 0, 1, 5, 6, 10, 50, 60)	-	-	-	-	-

\* Only restricted to the hardware platform performance (e.g. there are no software licensing limitations)

\*\* Device quota is not stackable, this represents the maximum quota available with purchased license.

## FortiAP™ Wireless Access Point

	FAP-11C	FAP-14C	FAP-28C	FAP-112B	FAP-221B/223B	FAP-221C	FAP-222B	FAP-320B	FAP-320C
Target Environment	Remote	Remote	Remote	Indoor/Outdoor	Indoor	Indoor	Indoor/Outdoor	Indoor	Indoor
Number of Radio / Antennas	1 / 1 Internal	1 / 1 Internal	1 / 2 Internal	1 / 1 Internal	221B: 2 / 4 Int. 223B: 2 / 4 Ext.	2 / 4 Internal	2 / 4 External	2 / 6 internal	2 / 6 internal
TX / RX Streams (802.11n / *802.11ac)	1x1 MIMO - 150 Mbps	1x1 MIMO - 150 Mbps	2x2 MIMO - 300 Mbps	1x1 MIMO - 150 Mbps	2x2 MIMO dual spatial stream - 600 Mbps Total	2x2 MIMO dual spatial stream - 1167 Mbps Total	2x2 MIMO dual spatial stream - 600 Mbps Total	3x3 MIMO with 3 spatial streams - 900 Mbps Total	3x3 MIMO with 3 spatial streams - 1750 Mbps Total
Total (Client access + Monitoring) Simultaneous SSIDs	8	8	8	8	16	16	16	16	16
Max Transmission Power	17dBm (50mW)	17dBm (50mW)	17dBm (50mW)	24 dBm (250mW) *	17dBm (50mW)	17dBm (50mW)	27dBm (500mW) hardware capable	24 dBm (250mW) *	21 dBm (126mW) *
Ethernet Interface	2x GE RJ45	5x FE	10x GE RJ45	2x FE	1x GE RJ45	1x GE RJ45	1x GE RJ45	2x GE RJ45	2x GE RJ45
Power over Ethernet (PoE)	-	-	-	802.3af	802.3af	802.3af	802.3at	802.3af / 802.3at	802.3af / 802.3at

\* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

## FortiSwitch™ Secured Access Switch

	FSW-28C	FSW-108D-POE	FSW-224D-POE	FSW-324B-POE	FSW-348B	FSW-448B
Total Interfaces	8 x GE RJ45 LAN, 2 x GE RJ45 WAN	8x GE POE RJ45 ports, 2x Shared Port Pairs	20x GE RJ45 ports (incl. 12 PoE), 4x GE Shared Port Pairs	16x GE PoE, 4x GE PoE+, 4x Shared Port Pairs	48 GE RJ45, 2x Shared Port Pairs	48 GE RJ45, 2x 10GE SFP+
Switch Capability	16 Gbps	20 Gbps	48 Gbps	48 Gbps	96 Gbps	136 Gbps
FortiGate Switch Controller Support	Yes (Remote)	Yes	Yes	Yes	Yes	Yes

For Complete selection of FortiSwitches, please refer to <http://www.fortinet.com/products/fortiswitch>

## FortiAuthenticator™ User Identity Management Server

	FAC-200D	FAC-400C	FAC-1000D	FAC-3000D	FAC-VM Base	FAC-VM-100-UG	FAC-VM-1000-UG	FAC-VM-10000-UG	FAC-VM-100000-UG
Max Local/Remote Users/ User Group	500 / 500 / 25	2,000 / 2,000 / 50	10,000 / 10,000 / 2,000	40,000 / 40,000 / 4,000	100 / 100 / 10	+100 / +100 / +10	+1,000 / +1,000 / +100	+10,000 / +10,000 / +1,000	+100,000 / +100,000 / +10,000
Max FortiToken	500	2,000	10,000	40,000	200	+200	+2,000	+20,000	+200,000
Max NAS Devices	50	200	1,000	4,000	10	+10	+100	+1,000	+10,000

## FortiSandbox™ Advanced Threat Prevention System

	FSA-1000D	FSA-3000D	FSA-VM
VM Sandboxing (Files/Hour)	160	560	Hardware dependent
AV Scanning (Files/Hour)	6,000	15,000	Hardware dependent
Number of VMs	8	28	Up to 52



## FortiDDOS™ Hardware Accelerated DDoS Mitigator

	FDD-200B	FDD-400B	FDD-800B	FDD-1000B	FDD-2000B
Throughput (Full Duplex)	2 Gbps	4 Gbps	8 Gbps	12 Gbps	24 Gbps
Simultaneous Connections	1 Mil	1 Mil	2 Mil	3 Mil	4 Mil
Session Setup/Teardown	100 K/Sec	100 K/Sec	200 K/Sec	300 K/Sec	600 K/Sec

## FortiMail™ Messaging Security Server

	FML-200D	FML-400C	FML-1000D	FML-3000D	FML-VM00	FML-VM01	FML-VM02	FML-VM04	FML-VM08
Email Routing* (Msg/Hr)	76,000	150,000	680,000	1.5 Mil	3,600	34,000	67,000	306,000	675,000
Performance AS+AV* (Msg/Hr)	58,000	120,000	500,000	1.3 Mil	2,700	26,000	52,000	225,000	585,000
Email Domains	20	100	800	2,000	2	20	100	800	2,000
Server Mode Mailboxes	150	400	1,500	3,000	50	150	400	1,500	3,000
Storage Capacity	1x 1 TB	2x 1 TB	2x 2 TB	2x 2 TB (12 TB Max)	1x 146GB	50 GB - 1 TB	50 GB - 2 TB	50 GB - 4 TB	50 GB - 8 TB

\* Measured based on 100KB message size, no queuing.

## FortiWeb™ Web Application Firewall

	FWB-400C	FWB-1000D	FWB-3000D/Fsx	FWB-4000D	FWB-VM01/-VM02/-VM04/-VM08
Throughput (HTTP)	100 Mbps	750 Mbps	1.5 Gbps	4 Gbps	25 Mbps /100 Mbps/ 500 Mbps 1 Gbps
Total Interfaces	4x GE RJ45	2x GE RJ45, 4x GE RJ45 Bypass, 2x GE SFP	6x GE RJ45, 2x GE Bypass /Fsx: 6x GE RJ45 , 2x 10GE SFP+ Bypass	6x GE RJ45, 2x GE RJ45 Bypass, 2x GE SX Bypass, 2x 10GE SFP+ Bypass	-

## FortiADC™ Application Delivery Controller

	FAD-200D	FAD-300E	FAD-400E	FAD-600E	FAD-1000E	FAD-1500D	FAD-2000D	FAD-4000D	FAD-VM01/VM02/VM04/VM08
Throughput (HTTP)	2.7 Gbps	4.8 Gbps	8 Gbps	12 Gbps	15 Gbps	20 Gbps	30 Gbps	50 Gbps	
Total Interfaces	4x GE RJ45	6x GE RJ45	8x GE RJ45	2x 10GE, 8x GE RJ45	2x 10GE, 8x GE RJ45	4x 10GE, 8x GE RJ45	4x 10GE, 16x GE RJ45	8x 10GE, 16x GE RJ45	Hardware Dependent

## Virtual Appliance Support Matrix

	VMWare vSphere v4.0/4.1	VMWare vSphere v5.0/5.1/5.5	Citrix Xen Server v5.6 SP2	Citrix Xen Server v6.0	Xen	KVM	Amazon AWS	Microsoft Hyper-V 2008 R2	Microsoft Hyper-V 2012
FortiGate-VM	•	•	•	•	•	•	•	•	•
FortiManager-VM	•	•					•	•	•
FortiAnalyzer-VM	•	•					•	•	•
FortiWeb-VM	•	•		•	•		•		•
FortiMail-VM	•	•						•	•
FortiAuthenticator-VM	•	•						•	•
FortiADC-VM		•							
FortiCache-VM	•	•							
FortiVoice-VM		•							
FortiRecorder-VM		•							
FortiSandbox-VM		•							

### Also Available

**AscenLink** Link Load Balancer  
**FortiBridge** Failopen Appliance  
**FortiCache** Secure Web Cache  
**FortiCamera** Network Video Security

**FortiClient** Host Security Client  
**FortiDB** Database Security System  
**FortiDNS** Secure DNS Cache  
**FortiExtender** 3G/4G WAN Extender

**FortiTap** Passive Network Tap  
**FortiToken** 2 Factor Authentication Token  
**FortiVoice** Secure VoIP Solution

This document is provided as a convenient comparison of Fortinet products and services. The datasheet for any product or service can be found on [www.fortinet.com](http://www.fortinet.com) should be consulted for the most updated specifications.

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